

Description

Device for permanently extending elongate body parts

5 The invention relates to a device for permanently extending elongate body parts, particularly the penis, comprising a support ring, at least one stretching rod coupled to the support ring and spring-mounted in axial direction that can gradually
10 be adjusted in length, and fixing means retained on the distal end of the stretching rod.

Such stretching devices that can help to achieve a permanent expansion of specific body parts such as
15 the penis based on continuously stretching the tissue by applying a stretching force and without the need for surgical intervention are known. For example, DE 196 18 351 A1 describes a device for penis expansion comprising telescopically guided
20 stretching rods that can be locked at the required length. The fixing means on the distal end of the stretching rod is a receiving shell with a support strap that can be set at variable perimeters. This device has a disadvantage in that the stretching
25 force is neither gradual nor can its increase be fine-metered and in that the strap-type fixing of the penis poses risks of injury from using the device.

30 In another embodiment of a penis expansion device according to DE 295 21 655 U1, the stretching rod is formed by two tapped bushes connected by a threaded rod. This makes fine-metering of the stretching force or the length of the stretching rods possible.
35 In addition, the stretching rods can be pivoted and are spring-mounted in the support ring. The fixing means is a wide strap that surrounds the penis and

has two cylindrical pockets spaced to receive the stretching rods. In addition to the risk of injury the strap-type fixing poses, putting on the device is difficult and requires considerable dexterity.

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Yet another known stretching device features two parallel threaded rods coupled to the support ring each of which is screwed into a tapped adjustment bush. A spring cover with an internal spring is mounted on the adjustment bush and can be moved telescopically against the spring action. The spring covers can be extended using extension rods. The fixing means for the distal end of the penis is a receiving shell with lateral bushes for plug-in connection of the free ends of the spring covers or extension rods and an elastic fastening strap whose ends can be locked at variable positions in the receiving shell. This device has the disadvantages of requiring a high degree of dexterity and can result in injury due to the elastic fastening strap.

It is the problem of the invention to design a device of the type mentioned above in such a way that simple, convenient, and painless handling of the expansion device is ensured when putting the device on and during its permanent use.

This problem is solved according to the invention by the device comprising the characteristics described in claim 1. The dependent claims disclose further characteristics and advantageous embodiments of the invention.

One important characteristic of the invention is that the fixing means is designed as a preformed cylindrical element that elastically encompasses the respective body part in part or fully. The body part is flexibly supported in stretched condition in a large area around its entire perimeter. High user

comfort is ensured due to large-area elastic pressure. Risk of injury by pinching is considerably reduced due to the approximately cylindrical design.

5 According to another important characteristic of the invention, retaining clips that can be locked into the side of the stretching rod and, in a preferred embodiment, flexibly encompass its perimeter are mounted to the perimeter of the fixing means. This
10 means that the fixing means can be conveniently attached to the penis and only has to be interlocked on the stretching rods with the retaining clip. This simplifies application of the expansion device considerably without the risk of pinching or
15 overstretching the body part. In addition, the stretching device can be temporarily released and re-attached quickly.

According to another important characteristic of the
20 invention, the retaining clips are mounted to the upper rim of the fixing means when viewed in stretching direction, which makes it possible to accommodate shorter body parts.

25 In one embodiment of the invention, the fixing means encompasses a rigid receiving shell to which retaining clips are formed and a stretching element comprising a domed flexible support part and stretching straps running from its sides that can be
30 locked into slots of the receiving shell.

According to another embodiment of the invention, the receiving shell is also made of a flexible material, or the receiving shell and/or the stretching element
35 have a flexible air-cushion design. The substantially cylindrical fixing means preferably consists of two linked shells with an inflatable air-cushion ring or an elastic material covering their inner surfaces and a lock that closes the shells at variable widths. In

this way, the respective body part can be placed and fixed fast and gently in the fixing means as well as released easily and quickly, if required.

5 In a preferred embodiment, the air cushion ring can be inflated manually or with a compressed air cartridge. A manual pump may be integrated in the fixing means.

10 As a further improvement of the invention, the fixing means can be designed as a one-piece cylindrical inflatable component with retaining clips formed onto its outer perimeter.

15 An embodiment of the invention is explained in greater detail below with reference to the figures. Wherein:

20 Fig. 1 shows a perspective exploded view of the device according to the invention for permanent penis expansion, and

Fig. 2 shows a perspective rear view of the device according to Fig. 1 in assembled condition.

25 Fig. 3 shows a perspective view of an embodiment of the receiving shell with retaining clips offset towards the top in stretching direction and extending beyond the
30 receiving shell;

Fig. 4 shows a view of a cylindrical folding fixing means with air cushioned inner surfaces and offset retaining clips, and

35 Fig. 5 shows a top view of the fixing means according to claim 4 with an elastic foam lining.

As is visible in the figure, the device comprises a support ring 1 for providing support on the user's body, two parallel pivoted stretching rods 2 that
5 can be extended gradually and are flexible in axial direction, and a detachable fixing means 3 at the distal ends of the two stretching rods 2 for gripping and fixing the penis in the glans region. Two articulated receptacles 4 for receiving a
10 jointed piece 5 that can be pivoted around a horizontal axis are formed on opposite sides onto the front surface of the support ring 1. The rear of the support ring 1 is an even closed surface with a rounded transition into the front surface. The
15 stretching rod 2 consists of a threaded rod 6 that is connected to the joint piece 5, an adjustment bush 7 that can be adjusted in axial direction as it is connected to the stretching rod 2 via a female thread, a spring cover 8 that is telescopically
20 arranged on the adjustment bush 7 and spring-loaded towards the distal end of the stretching rod 2, and one or several extension rods 9. The peripheral surface of the adjustment bush 7 comprises markings 7a that indicate the size of the tensile force
25 applied by the spring cover 8 in accordance with the position of said spring cover 8 on the adjustment bush 7. The threaded rod 6 comprises a stop piece 10 that can be screwed onto its end that prevents the adjustment bush 7 from unintentional release from
30 the threaded rod 6 during extension. The spring cover 8 that is held when pulled out by a stop piece 11 screwed to the front of the adjustment bush 7 and closed by a locking adapter 12, contains a spring 13 that presses the spring cover 8 toward the distal
35 end of the stretching rod 2. The locking adapter 12 can be screwed onto extension rod 9. The two-part fixing means 3 of the embodiment shown consists of a substantially rigid receiving shell 14 that has a concave shape in the support surface area and

retaining clips 15 formed onto its sides that
comprise a cylindrical plug-in part 16. The upper
rim of the receiving shell 14 is bent towards the
rear of the receiving shell. The receiving shell 14
5 can be attached from the side to the stretching rods
2 using the retaining clips 15 that have the form of
a cylinder slotted in longitudinal direction with
flexible cheeks 15a, while the plug-in part 16
allows provides locking in longitudinal direction.
10 The receiving shell 14 comprises slots 17. The
second part of the fixing means 3 consists of a
rubber-elastic fastening element 18 comprising a
flexible supporting part 18a that is domed according
to the shape of a penis and has very rounded edges,
15 two fastening straps 18b with latches 18c formed
onto them at a spacing for locking the fastening
straps 18b in the slots 17 of the receiving shell
14, and two shackles 18d acting in opposite
direction of the fastening straps 18b for releasing
20 the fastening element 18 and limiting the tension
forces. The user can conveniently put on the fixing
means designed in this way so that injuries or
painful pinching are excluded. Painless fastening is
mainly promoted by the flexible and the preformed
25 and rounded design of the supporting part 18a. The
shackles 18d prevent application of too much tension
force and facilitate fast and convenient release of
the fastening element 18. After putting on the
fixing means 3, the retaining clips 15 are locked
30 sideways into the stretching rods 2 that were put on
before and are supported against the body using the
support ring 1. The cylindrical plug-in part 16
provides security in addition to lateral locking. An
upper limiting plate on the retaining clip 15 is
35 sufficient to prevent the fixing means 3 from
slipping down.

According to a preferred embodiment shown in Fig. 3,
the retaining clips 15 are formed onto the upper
rim of the receiving shell 14. This makes it

possible, after putting on the fixing means, to connect the retaining clips 15 and the stretching rods without overstretching even a very short penis. The retaining clips that protrude upwards at the
5 same time protect the upper exposed part of the penis. The slots 17 in the receiving shell 14 can be of oblong design in order to vary the attachment of the elastic fastening element 18 in the stretching direction.

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According to another embodiment not shown in the figure, the fastening element 18 can be designed as a flexible and inflatable strap or hose-type hollow body whose ends are connected to the receiving shell
15 14 or detachably held thereon. After putting on the fixing means 3 of such design with the inflatable fastening element in uninflated condition, air is blown into the inflatable fastening element using an external pump or a pump integrated in the fixing
20 means or a compressed air cartridge to gently fasten the penis without any risk of pinching. In an improvement of this embodiment, the receiving shell 14 can be an inflatable hollow body or the entire fixing means 3 can be designed as a double-walled
25 cylindrical hollow body with diametrically opposed retaining clips 15 on its outer wall. The outer wall can be rigid and the inner wall flexible. Both walls can be flexible as well. After inflating the double-walled cylindrical fixing means with at least a
30 flexible inner wall, the inner diameter is reduced and the inner wall evenly and flexibly tightens along the entire perimeter of the penis. In yet another variant not shown in the figure, an elastic bulge surrounding the fixing means fully or
35 partially can be attached to the distal rim of the respective fixing means to optimize fastening in axial direction.

A preferred embodiment of a substantially circular, cylindrical fixing means 3 that fully and flexibly surrounds the penis, with retaining clips 15 offset in stretching direction, is shown in Figs. 4 and 5.

5 The fixing means 3 in this embodiment consists of two shells 23a, 23b connected by a hinge 20 and a lock 21. In the embodiment according to Fig. 4, an inflatable air cushion ring 24 split in the area of the lock 21 and equipped with valves 19 on its

10 outside to supply and discharge air is attached to the inner surfaces of shells 23a, 23b. According to the variant shown in Fig. 5, an elastic gel or foam lining 22 is applied to the inner surfaces of the two rigid shells 23a, 23b and broken in the lock

15 section so that the upper shell 23a can completely be swiveled away from the lower shell 23b. Shells 23a, 23b differ in size, and the retaining clips 15 are attached at an upward offset in stretching direction to the bigger shell 23b. The lock 21 can

20 be of an adjustable design such as a locking, snap fastener, or velcro system so that the inner perimeter of the fixing means can be adjusted to the perimeter of the penis, achieving safe and gentle fastening. The air cushion ring 24 can be inflated

25 using an external electric or manual air pump, a compressed air cartridge, or respiratory air.

List of reference symbols

	1	Support ring
	2	Stretching rod
	3	Fixing means
5	4	Joint receptacle
	5	Joint piece
	6	Threaded rod
	7	Adjustment bush
	7a	Marking
10	8	Spring cover
	9	Extension rod
	10	Stop piece
	11	Stop piece
	12	Locking adapter
15	13	Pressure spring
	14	Receiving shell
	15	Retaining clip
	15a	Flexible cheeks
	16	Stop piece/cylindr. plug-in part
20	17	Slots
	18	Elastic fastening element
	18a	Flexible domed support part
	18b	Fastening straps
	18c	Latches
25	18d	Shackles
	19	Inlet/outlet valve
	20	Hinge
	21	Lock
	22	Elastic foam/gel
30	23a	Small shell
	23b	Big shell
	24	Air cushion ring